

### **Abstract**

The invention provides for methods of modifying immunodominant epitopes on polypeptides, preferably polypeptides intended for therapeutic use.

Knowledge of immunodominant epitopes prior to clinical use of polypeptides would be useful to design and engineer less immunogenic molecules. The invention provides for methods of identifying immunodominant epitopes and modifying an immunodominant epitope to reduce the immune response to the polypeptide while still retaining a substantial therapeutic activity of the polypeptide. The modified polypeptides are useful therapeutically.

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